

# Purchase Order Receipt Listing

Monday, May 16, 2016 10:10:25 AM

All Vendors PO ID PO32341 Receipt Dates from 5/13/2016 to 5/13/2016 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

All amounts are calculated in domestic currency.

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO32341	1		M174R0.750 f		5/18/2016	5/13/2016	24.0000	\$5.35	0.0000	0	\$128.39
CAD	No		17-4 round bar .750 f		24.0000	PL0U01		\$128.39	0.0000	0	
			m134776								
	2		M303R0.375 f		5/18/2016	5/13/2016	24.0000	\$1.49	0.0000	0	\$35.86
No	No		303 Round Bar 0.375" f		24.0000	PL0U01		\$35.86	0.0000	0	
			m134776								
	3		M303R0.750 f		5/18/2016	5/13/2016	48.0000	\$3.17	0.0000	0	\$152.24
No	No		303 Round Bar 0.750 f		48.0000	PL0U01		\$152.24	0.0000	0	
			m134776								
	4		M303R2.000 f		5/18/2016	5/13/2016	13.2000	\$15.32	0.0000	0	\$202.17
No	No		303 ROUND BAR 2" f		13.2000	PL0U01		\$202.17	0.0000	0	
			m134776								
	6		M6061T6B0.750X03. f		5/18/2016	5/13/2016	12.0000	\$4.89	0.0000	0	\$58.65
No	No		6061-T6 Bar .750 x 3.00		12.0000	PL0U01		\$58.65	0.0000	0	
			m134776								
	7		M6061T6B00750X00 f		5/18/2016	5/13/2016	60.0000	\$0.76	0.0000	0	\$45.42
No	No		.125 6061-T6 Bar .750 x .125		60.0000	PL0U01		\$45.42	0.0000	0	
			m134776								
	8		M6061T6B1.000X04. f		5/18/2016	5/13/2016	12.0000	\$9.30	0.0000	0	\$111.60
No	No		6061-T6 Bar 1.00 x 4.00		12.0000	PL0U01		\$111.60	0.0000	0	
			m134776								
	9		M6061T6B1.250X01. f		5/18/2016	5/13/2016	12.0000	\$3.47	0.0000	0	\$41.60
No	No		6061-T6 Bar 1.25 x 1.25		12.0000	PL0U01		\$41.60	0.0000	0	
			m134776								

Order ID/ Curr Type	Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name	10	VC-COP001	Thysenkrupp Materials CA Ltd								
CAD	No		M6061T6B1.250X04. f 500 6061-T6 Bar 1.25 X 4.50 ml34776		5/18/2016 5/13/2016		(12.0000)	\$11.80	0.0000	0	\$141.65
			M6061T6B1.500X02. f 500 6061-T6 Bar 1.50 x 2.50 ml34776		5/18/2016 5/13/2016		(12.0000)	\$8.97	0.0000	0	\$107.58
			M6061T6B2.000X08. f 000 6061-T6 BAR 2.00' f X 8.00" (CUT IN 4FT SECTION) ml34776		5/18/2016 5/13/2016		(8.0000)	\$38.32	0.0000	0	\$306.58
			M6061T6B2.500X03. f 500 6061-T6 Bar 2.50 x 3.50 ml34776		5/18/2016 5/13/2016		(12.0000)	\$18.38	0.0000	0	\$220.54
			M6061T6R0.500 6061-T6 Round Bar .500" ml34776		5/18/2016 5/13/2016		(24.0000)	\$1.51	0.0000	0	\$36.34
			M6061T6R0.625 6061-T6 Round Bar .625" ml34776		5/18/2016 5/13/2016		(12.0000)	\$2.99	0.0000	0	\$35.86
			M6061T6R1.000 ROUND BAR 1.00" ml34776		5/18/2016 5/13/2016		(12.0000)	\$2.99	0.0000	0	\$35.86
			M6061T6R1.500 6061-T6 Round Bar 1.50 ml34776		5/18/2016 5/13/2016		(12.0000)	\$3.88	0.0000	0	\$46.62

Monday, May 16, 2016 10:10:25 AM

Purchase Order Receipt Listing

Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recev Date/ Emp	Recev Qty (PO U/M)	Cost Per Unit/ Recev Value	Inspected Qty/ Rejected Qty (PO U/M)	MRRB Qty/ MRRB Reject Qty	Book Amt
<div><div>Total Received Quantity:</div><div>309.2000</div></div> <div><div>Total Qty to Inspect (PO U/M):</div><div>0.0000</div></div> <div><div>Total Reject Quantity:</div><div>0.0000</div></div> <div><div>Total Receipt Value:</div><div>\$1,706.97</div></div> <div><div>Total Balance Due Quantity:</div><div>0.0000</div></div>											

Monday, May 16, 2016 10:10:25 AM

Purchase Order Receipt Listing

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.  
TOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Page: 1 ... Continued

1) Our Order PEC-927459-1 Your PO # 32341 STAINLESS STEEL ROUND BAR 17-4 STAINLESS Heat Number 266870 Tag No 531203 Quantity 24 FT PCS 2 Wt LBS 36	2) Our Order PEC-927459-2 Your PO # 32341 STAINLESS STEEL ROUND BAR 303 STAINLESS Heat Number X0V0 Tag No 531204 Quantity 24 FT PCS 2 Wt LBS 9	3) Our Order PEC-927459-3 Your PO # 32341 STAINLESS STEEL ROUND BAR 303 STAINLESS Heat Number VBMU-5630 Tag No 531205 Quantity 48 FT PCS 4 Wt LBS 72	4) Our Order PEC-927459-4 Your PO # 32341 STAINLESS STEEL ROUND BAR 303 STAINLESS Heat Number Y6E5 Tag No 531206 Quantity 13' 2.0000" PCS 1 Wt LBS 140	5) Our Order PEC-927459-5 Your PO # 32341 STAINLESS STEEL FLAT BAR 304L SLIT/EDGED Heat Number 1416283 Tag No 531207 Quantity 12 FT PCS 1 Wt LBS 42
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Colt 8-11-10

B I L L O F L A D I N G

Ship From: THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5G6  
Tel: 905 669 9444 Fax: 905-738-9033  
Ship To: (1) DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

Ship Date 13May16 at 11:03 From FRW  
No: PEC 991029  
Probill  
Via VIM DELIVERY  
FOB CONCORD  
Frt PREPAID  
Route 0-0 Manifest  
Vehicle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115) DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7



Ship Date 13May16 at 11:03 From PFW  
No: PEC 991029  
Ship Date 13May16 at 11:03 From PFW  
Probill  
Via VIM DELIVERY  
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Route 0 - 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033  
Ship To: ( 1)  
DART AEROSPACE

B I L L O F L A D I N G

6)	Our order PEC-927459- 6 Your PO # 32341	ALUMINUM FLAT BAR 6061-T6511	Heat Number	200219150	Tag No	531208	Quantity	12 FT	PCS	1	WT LBS	31
7)	Our order PEC-927459- 7 Your PO # 32341	ALUMINUM FLAT BAR 6061-T6511	Heat Number	423608-1	Tag No	531209	Quantity	60 FT	PCS	3	WT LBS	7
8)	Our order PEC-927459- 8 Your PO # 32341	ALUMINUM FLAT BAR 6061-T6511	Heat Number	191717-7	Tag No	531210	Quantity	12 FT	PCS	1	WT LBS	57
9)	Our order PEC-927459- 9 Your PO # 32341	ALUMINUM SQUARE BAR 6061-T6511	Heat Number	201601833	Tag No	531211	Quantity	12 FT	PCS	1	WT LBS	23
10)	Our order PEC-927459- 10 Your PO # 32341	ALUMINUM FLAT BAR 6061-T6511	Heat Number	201605644	Tag No	531212	Quantity	12 FT	PCS	1	WT LBS	80
11)	Our order PEC-927459- 11 Your PO # 32341	ALUMINUM FLAT BAR 6061-T6511	Heat Number	201605644	Tag No	531212	Quantity	12 FT	PCS	1	WT LBS	80

Page: 2 ... Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
RAPORTEES IMMEDIATEMENT  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
TOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

CU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION  
ST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Page: 3 ... continued

MTR

8/605-16

17) Our order PEC-927459-17 Your PO # 32341  
ALUMINUM ROUND BAR 6061-T6511  
1.50" DIA X 144.0000"

Heat Number 200216231  
Tag No 531217  
Quantity 12 FT  
PCS 1  
Wt LBS 11

MTR

16) Our order PEC-927459-16 Your PO # 32341  
ALUMINUM ROUND BAR 6061-T6511  
1.00" DIA X 144.0000"

Heat Number 596954  
Tag No 531216  
Quantity 12 FT  
PCS 1  
Wt LBS 5

MTR

15) Our order PEC-927459-15 Your PO # 32341  
ALUMINUM ROUND BAR 6061-T6511  
.625" DIA X 144.0000"

Heat Number 64732-109  
Tag No 531215  
Quantity 24 FT  
PCS 2  
Wt LBS 6

MTR

14) Our order PEC-927459-14 Your PO # 32341  
ALUMINUM ROUND BAR 6061-T6511  
1.50" DIA X 144.0000"

Heat Number 201602943  
Tag No 531214  
Quantity 12 FT  
PCS 1  
Wt LBS 125

MTR

13) Our order PEC-927459-13 Your PO # 32341  
ALUMINUM FLAT BAR 6061-T6511  
2.50" X 3.50" X 144.0000"

Heat Number 201602869  
Tag No 531251  
Quantity 8 FT  
PCS 2  
Wt LBS 151

MTR

12) Our order PEC-927459-12 Your PO # 32341  
ALUMINUM FLAT BAR 6061-T6511  
2.00" X 8.00" X 48.0000"

Heat Number 191718-2  
Tag No 531213  
Quantity 12 FT  
PCS 1  
Wt LBS 53

MTR

B I L L O F L A D I N G

Ship To: ( 1 )  
DART AEROSPACE

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G  
No: PEC 991029  
Ship Date 13May16 at 11:03 From PFW  
Probill  
Via VIM DELIVERY  
FOB CONCORD  
Frt PREPAID  
Route 0 - 0 Manitest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115 )  
DART AEROSPACE

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT  TRE  
 RAPPORT ES IMM DIATEMENT.  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.  
 RETOUR DE MARCHANDISES AVEC NOTRE NUM RO D'APPROBATION SEULEMENT.  
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DATE

ALUMINUM • L'ATON • CUIVRE • PLASTIQUE • ACIER INOX  
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

Page: 4 ... Continued

TOTAL 1 SKID, 2 BDLs GW. 915 LBS

\*\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*\*  
 \*\* REFERENCED ON IT \*\*  
 ATTN: CHANTAL/LINDA  
 TO SHIPPING.  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 WILL TEST REPORTS, PACKING SLIPS ARE TO SENT

Heat Number  
 1416283  
 191717-7  
 191718-2  
 201601833  
 201602869  
 201602943  
 201605644  
 266870  
 423608-1  
 596954  
 64732-109  
 VBMU-5630  
 KOVO  
 46E5  
 200216231  
 200219150  
 200262325

\*\*\* Chemical Analysis \*\*\*

TOTAL: Tags 17 PCS 26 LBS 873

Heat Number 200262325 Tag No 531218 Quantity 12 FT PCS 1 Wt LBS 25

B I L L O F L A D I N G

Ship Date 13May16 at 11:03 From PFW  
 No: PEC 991029  
 Ship Date 13May16 at 11:03 From PFW  
 Probill  
 Via VIM DELIVERY  
 FOB CONCORD  
 Frt PREPAID  
 Route 0 - 0 Manifest  
 Vhcle Trailer  
 Stp STAN IVERS (905-532-1350)  
 Sold To: (20115)  
 DART AEROSPACE

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033  
 Ship To: (1)  
 DART AEROSPACE

B I L L O F L A D I N G



QST # 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
ETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Page 5 . . . Last

B I L L O F L A D I N G  
CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT. \*\*\* TEL. 800-926-2600 \*\*\*  
\*\*\*\*\*  
WE STOCK STAINLESS STEEL  
\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*  
\*\*\*\*\*  
\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*  
\*\*\*\*\*  
\*\*\*UNE SURCHARGE D'ENERGIE DE \$25.00  
SERAJOUTEE A CHAQUE COMMANDE.\*\*\*  
\*\*\*POUR VOS BESOINS D'ACIER INOXYDABLE,  
CONTACTEZ-NOUS. NOUS L'AVERONS! TEL. 800-926-2600\*

B I L L O F L A D I N G

IN G  
No: PEC 991029  
Ship Date 13May16 at 11:03 From PFW  
Probill  
Via VIM DELIVERY  
FOB CONCORD  
Frt PREPAID  
Route 0 - 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

SHIP From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

DART AÉROSPACE  
STAINLESS STEEL ROUND BAR 17-4 STAINLESS  
'750" DIA X 144.0000"  
PART NO.

PO/R# 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-991029-001

13May16 Pg 1/2

**Acciaierie  
Valbruna s.p.a.**

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Telefono 0444.868211 - Fax 0444.868386  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37  
Telefono 0471.924111 - Fax 0471.924497  
Cliente / Besteller/Purchaser/Clienti

VATBRUNA CANADA LTD  
8724 HOLGATE CRESCENT  
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Produttore: ACCIAIERIE VALBRUNA S.P.A.

Hot rolled - COND. A Peeled  
Reeled/Polished

berufliche:  
forderungen / Requisites / Exigences

MS 5643 T S17400 A  
STM A564 2013 S17400 A

alla: 630  
alla: 630

ASTM A484	V174	ASTM A484
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030		Abmessungen Drehen Drehen
030		Abmessungen Drehen Drehen

650-117			
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[illegible]

Lamp color, spec	mum	ii			Valon Address

[illegible]

TEST ALLO STATO

Delta Ferrite  
Grain size for ASTM E112

RATINGS SEVERITY

Temperatura	Raffreddamento	Permanenza	Tipo Testata
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900°F	APR	60
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SALES  
7-10-68  
LAWSON

LINDA DAVIS  
YARD DRIVE  
STOCKTON CA

LINDA HANCOCK  
YARD DRIVE  
STOCKTON CA

min	170	
max		

180	7	08	12.0
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271015

REVISED 2006-08-01

1000

Indonesian for example







THYSSENKRUPP MATERIALS NA  
DART AEROSPACE  
STAINLESS STEEL ROUND BAR 303 STAINLESS  
2.00" DIA X 158.0000"  
PART NO.

PO/Rel 32341

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Certificate of Mill Test Results  
13 May 16  
Pg 1/1  
Signed by: \_\_\_\_\_  
BL PEC-991029-004



North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

Certificate: 167301 5

Mail To:

THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Ship To:  
THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Date: 4/19/2016 Page: 1

Steel: 303

Finish: ST

Corrosion:

Red Ratio: 18.1 :1

Your Order: PEC273957

NAS Order: PN 0064988 09

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished  
UNS 30306, ASTM A582/12 EN 10204 3.1, ASTM A484/13a  
AMS 5640V TYPE 1, Q09-764B CONDITION A  
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLETES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE  
2011/65/EU, ROHS. EAP+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH8780 1		2.0000		837	144.00	5	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323  
HEAT 625 Chemical Analysis Per ASTM A751/14a

CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
US	.0372	.1310	17.0055	.2260	1.8560	.2625	.0379	8.4510	.0250

S % SI %  
.3195 .6465

MECHANICAL PROPERTIES

Product Id	1 d	o i	HB	.2YS	UTS	RA	Elong
BH8780 1	R L	170.0	48.00	87.00	56.00	44.00	% 4D

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical  
Dept. Mgr.



振石集团东方特钢股份有限公司  
ZHENSU GROUP EASTERN  
SPECIAL STEEL CO., LTD

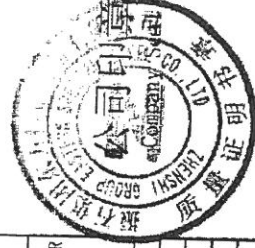
产品质量证明书  
INSPECTION CERTIFICATE

公司地址: 浙江省嘉兴市南湖区新丰镇经济开发区  
ECONOMIC DEVELOPMENT ZONE, NINFENG COUNTRY, NANHU  
DISTRICT, JIAXING CITY 314005, ZHEJIANG PROVINCE.

DAS  
14  
9-09

160517

订货单位 CUSTOMER	GLOBAL STAINLESS STEEL INC.		产品名称 PRODUCT	不锈钢热轧钢板 HOT-ROLLED STAINLESS STEEL PLATES		证书号 CERTIFICATE NO.	150128003	
收货单位 PURCHASER	GLOBAL STAINLESS STEEL INC.		合同号 CONTRACT NO.	GMMY09114015		交货日期 DATE OF DELIVERY	4-Jan-15	
钢号 TYPE	304L		发票号 INVOICE NO.	ESSD20100073		签发日期 DATE OF ISSUE	28-Jan-15	
标准 SPECIFICATION	ASTM A240M-13a		交货状态 DELIVERY STATUS	NO. 1		信用证号码 L/C No.		
钢卷/板号 COIL/PLATE NO.	炉号 HEAT NO.	规格及重量 MATERIAL DESCRIPTION		化学成分 (熔炼分析) % CHEMICAL COMPOSITION (HEAT ANALYSIS) %				
1	1141628301003-120	厚度 THICK	宽度 WIDTH	长度 LENGTH	件数 NUMBER	重量 WEIGHT		
2	114162830203-11	4.75	1500	3658	118	23907		
3	114162830303-85	12.70	1530	3658	9	5077		
4	114162830403-57	6.60	1500	3658	82	23489		
5	114162830202	9.53	1500	3658	55	22638		
合计(TOTAL)		12.70	1530	3658	1	564		
钢卷/板号 COIL/PLATE NO.	拉伸试验 TENSILE TEST	硬度 HARDNESS	弯曲 BEND	冲击试验 IMPACT TEST				
1	1141628301003-120	屈服强度 (Y.S.)	抗拉强度 (T.S.)	断后伸长 率(EL.)	ISO-V冲击试验			
2	114162830203-11	Rm	Rm	%	ISO-V冲击试验			
3	114162830303-85	650	269	63	ISO-V冲击试验			
4	114162830403-57	630	305	89	ISO-V冲击试验			
5	114162830202	660	310	66	ISO-V冲击试验			
合计(TOTAL)		637	292	67	ISO-V冲击试验			
备注 REMARKS	1. 本产品已通过 ISO9001 质量管理体系认证 (THE PRODUCTS HAVE PASSED THE ISO9001 QUALITY CERTIFICATION LICENSE.) 2. 请保证以上所有内容的真实性 (WE HEREBY CERTIFY THE ABOVE STATEMENT TO BE TRUE AND CORRECT IN EVERY DETAIL.) 3. 热处理 (HEAT TREATMENT): SOLUTION 1050-1100°C. QUENCHING IN WATER							
注释 NOTES	TR: (Transverse) 纵向; L: (Longitudinal) 纵向; DIR: (Direction) 方向; T: (Thickness) 厚度; TML: (Temperature) 温度; EL: (Elongation) 断后伸长率; Y.S.: (Yield Strength) 屈服强度; T.S.: (Tensile Strength) 抗拉强度; A.E.: 吸收能量; AVE.: 平均值							



质量负责人  
QUALITY MANAGER  
\_\_\_\_\_

CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

*Best in Class*

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
 5205 KAISER DRIVE  
 FABRICATED PRODUCTS, LLC  
 KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-273675-11		CUSTOMER PART NUMBER: 448/STK	
KAISER ORDER NUMBER: 011	SHIP DATE: 03/15/2016	QUANTITY: 48,000 PCS	SHIP TO: 1524.000 LB
LINE ITEM: 011	SHIP DATE: 03/15/2016	QUANTITY: 48,000 PCS	SHIP TO: 1524.000 LB
KAISER LOT NUMBER: 6061	SHIP DATE: 03/15/2016	QUANTITY: 48,000 PCS	SHIP TO: 1524.000 LB
ALLOY: 6061	SHIP DATE: 03/15/2016	QUANTITY: 48,000 PCS	SHIP TO: 1524.000 LB
TEMPER: T6511	SHIP DATE: 03/15/2016	QUANTITY: 48,000 PCS	SHIP TO: 1524.000 LB
PRODUCT DESCRIPTION: 750 X 3.000 SC RECT BAR			
SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
20C219150	0001	C001	45.2	40.1	19.9	RE 91	N/A	N/A
20C219150	0001	C002	44.8	39.5	17.5	RE 92	N/A	N/A
20C219150	0001	C003	44.7	39.5	17.7	RE 93	N/A	N/A
20C219150	0001	C004	44.7	39.3	18.5	RE 93	N/A	N/A
20C219150	0001	C005	45.0	40.1	20.4	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.60	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.03	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
LC6016	.57	.25	.19	.03	.81	.06	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II  
 conforms to T6-not applicable to other tempers  
 (T6511 also UNS#A96061)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
 MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Any warranty is limited to that shown on Kaiser Aluminum Fabricated Products, LLC. Test reports are on file, subject to examination.

*Almco L. Macnowski*  
 Quality & Technology Manager

**Material Test Report**

Ship To: ThyssenKrupp Materials NA  
 2821 Langstaff Road  
 Concord, ON L4K 5C6  
 Manifest: 307618  
 Ticket: 5472026

Our Order: **423608 - 1**  
 Die: ES05485  
 Part: 05485-000-240  
 Description: **.125 x .750**  
 Alloy Temper: **6061 T6511**  
 Print Date: 4/20/16

**Chemical Composition Range**

6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
Min	0.40		0.15		0.8	0.04				

**Mechanical Properties**

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield	2% Offset	Elongation 2" gage length
421899	3B2324	A11	4/14/16	38.53	35.76		9.1

Applicable Specifications: **ASTMB221-14**  
**AMS-QQ-A200/8**  
 Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Authorized: Siddharth Desai - Tensile Testing  
 Evan Eng, Quality Assurance Manager

# THYSSENKRUPP MATERIALS NA

## DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
1.00" x 4.00" x 144.000"  
PART NO.

PO/Rel 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

# Certificate of Mill Test Results

13 May 16  
Pg 1/1

Signed by: \_\_\_\_\_

BL PEC-991029-008



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
http://www.extrudex.com

## MILL TEST

BILL TO THYSSENKRUPP MATERIALS, NA	CERT CODE: 9	DIE NUMBER S 4657	DATE OF SHIPMENT Apr/07/2016	EXTRUDEX ORDER NO. 191717 - 7	MANIFEST NO. 346717
SHIP TO THYSSENKRUPP MATERIALS, NA	CUSTOMER PO PEC-274010	ALLOY 6061	SALESMAN FORBES DODWELL		
SO DESCRIPTION 1"x4" FB	CUSTOMER PART NUMBER 4657-S	TEMPER T6511			
		PART DESCRIPTION 1"x4" FB			

## Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.12	6061	Apr/06/2016	43.50	40.50	13.40	89.6, 89.8, 89.3	

## Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Sr	Co	Al	Other
32149	A.12	6061	0.57	0.216	0.213	0.051	0.84	0.053	0.0055	0.0054						Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

*David Natale*

David Natale  
Quality Control Manager

1 - CUSTOMER COPY



# THYSSENKRUPP MATERIALS NA

DART-AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
1.250" X 4.50" X 144.0000"

PO/Rel 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results  
13May16  
Pg 1/1  
BL PEC-991029-010

Signed by:



Service Center Metals

5850 Quality Way  
Prince George, VA 23875

Can Do.

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO ThyssenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 290362	DIE NUMBER MRB1771	DATE OF SHIPMENT 3/31/2016	OUR ORDER NUMBER 258982	ITEM 7
SHIP TO ThyssenKrupp Materials NA-Concord, ON	CUSTOMER PO PEC-274001	ALLOY/TEMPER 6061-T6511	SALESPERSON D Schroeder (Canada)	CERTIFICATION ASTM-B221-14 StencilCont	
Quantity Certified 961 lbs 12 pcs	CUSTOMER PART NUMBER MRB1771	DESCRIPTION MQRB 1.250x4.500		SPECIFICATION AMS-QQA-200/8 - 1997	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

### Mechanical Properties

Tests	Lot No.	Test Date		Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
		min	max	min	max	min	max	min	max
2	201605644	50.50	51.70	47.20	48.40	13.20	13.50		

DAS 14 9-03  
16/05/17

### Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source:
03041803	201605644	6061	0.72	0.37	0.30	0.10	0.88	0.09	0.07	0.02	97.45		0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

Calvin J. Wiggins, Director of Quality & Technical

# THYSSENKRUPP MATERIALS NA

## DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
2.00" X 8.00" X 48.0000"  
PART NO.

# Certificate of Mill Test Results

13 May 16  
Pg 1/1

PO/Ref 32341  
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:



**Service Center Metals**

5850 Quality Way  
Prince George, VA 23875

**Can Do.**

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO ThyssenKrupp Materials NA-Concord, ON		MANIFEST NUMBER 286269	DIE NUMBER MRB1859	DATE OF SHIPMENT 2/24/2016	OUR ORDER NUMBER 254492	ITEM 4
SHIP TO ThyssenKrupp Materials NA-Concord, ON		CUSTOMER PO PEC-272908	ALLOY/TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	CERTIFICATION ASTM-B221-14 StencilCont	
Quantity Certified 912 lbs	4 pcs	CUSTOMER PART NUMBER MRB1859	DESCRIPTION MQRB 2.000 x 8.000		SPECIFICATION AMS-QQA-200/8 - 1997	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

RoHS 2011/65/EU Compliant

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201602869	2/19/16	min 52.90 max 52.90	min 49.90 max 49.90	min 15.62 max 15.62

DAS  
1.4  
9.00

16/05/17

### Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source
02121603	201602869	6061	0.74	0.39	0.30	0.10	0.89	0.08	0.10	0.02	97.38	0.05	0.15	United States of America
12141502	201602869	6061	0.73	0.34	0.30	0.09	0.88	0.09	0.05	0.02	97.50	0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

*Calvin J. Wiggins*

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 2/24/2016



# THYSSENKRUPP MATERIALS NA

**DART AEROSPACE**  
ALUMINUM FLAT BAR 6061-T6511  
2.50" x 3.50" x 144.0000"  
PART NO.

PO/Rel 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

13 May 16  
BL PEC-991029-013

Pg 1/1

Signed by:



**Service Center Metals**

5850 Quality Way  
Prince George, VA 23875

**Can Do.**

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

<b>BILL TO</b>	<b>MANIFEST NUMBER</b>	<b>DIE NUMBER</b>	<b>DATE OF SHIPMENT</b>	<b>OUR ORDER NUMBER</b>	<b>ITEM</b>
ThyssenKrupp Materials NA-Concord, ON	286269	MRB0440	2/24/2016	254492	5
<b>SHIP TO</b>	<b>CUSTOMER PO</b>	<b>ALLOY/TEMPER</b>	<b>SALES PERSON</b>	<b>CERTIFICATION</b>	
ThyssenKrupp Materials NA-Concord, ON	PEC-272908	6061-T6511	D. Schroeder (Canada)	ASTM-B221-14 StencilCont	
<b>Quantity Certified</b>	<b>CUSTOMER PART NUMBER</b>	<b>DESCRIPTION</b>		<b>SPECIFICATION</b>	
1,120 lbs 9pcs	MRB0440	MCRB 2.500x3.500		AMS-QQA-200/8 - 1997	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201602391	2/9/16	min 57.40 max 57.40	min 53.80 max 53.80	min 13.95 max 13.95
1	201602943	2/19/16	min 51.80 max 51.80	min 48.80 max 48.80	min 14.55 max 14.55

### Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source:
02121603	201602943	6061	0.74	0.39	0.30	0.10	0.89	0.08	0.10	0.02	97.38		0.05	0.15	United States of America
1K160201A	201602391	6061	0.74	0.37	0.33	0.10	0.88	0.10	0.05	0.02	97.42		0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

*Calvin J. Winnings*

Calvin J. Winnings, Director of Quality & Technical Services

Print Date: 2/24/2016

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINIUM ROUND BAR 6061-T6511

PART NO. 144.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

PO/Ref 32341

Certificate of Mill Test Results  
BL PEC-991029-015  
13May16  
Pg 1/1

Signed by:



LB ALUMINIUM BERHAD

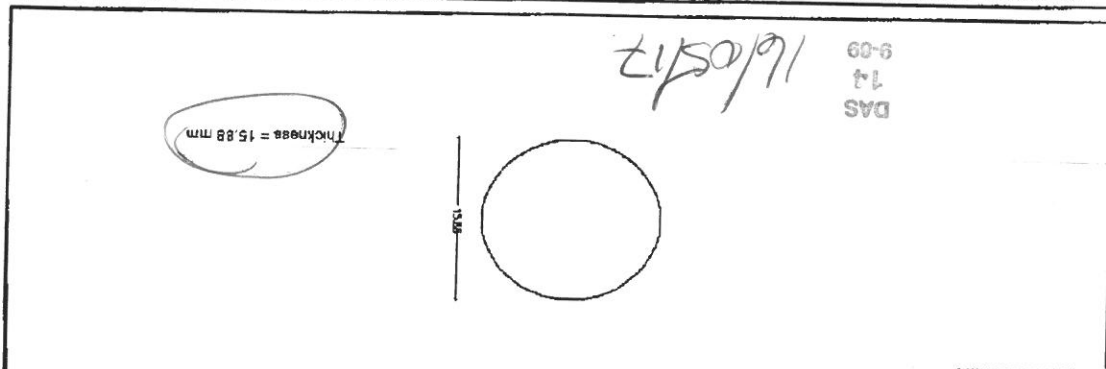
(138535-V)



## TEST CERTIFICATE

CUSTOMER:	THYSSENKRUPP MATERIALS NA	SECTION NO.:	PE01665M/F03660	DATE:	Mar-29-2016
SALES ORDER NO.:	1619145	WORK ORDER:	596954	ALLOY:	6061-T6511
PRESS NO.:	2000	EXTRUSION DATE:	Feb-20-2016	CERTIFICATE NO.:	MCE011603386
CUSTOMER PO NO.:	PEC-2772700				

Section Sketch:



## CHEMICAL COMPOSITION

Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remainder
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	0.15
Actual	0.660	0.140	0.200	0.120	0.920	0.100	0.010	0.011	0.011

MECHANICAL PROPERTIES (Result shown is tested by LBALUM)	Tensile Strength N/mm <sup>2</sup>	Yield Stress N/mm <sup>2</sup>	Elongation (%)
Standard	260	240	10
Result	324.36	295.65	15.91

We hereby certify that the material covered by this report has been verified or tested according to the requirements of any specifications or requirements described herein, and that sample representative of the material, not the composition limits and that the mechanical properties shown, also, does not vary in a normal composition in aluminum alloys. Further, we certify that the material is in accordance with the requirements of our contract. This certificate conforms to 3.1, EN 10204.

\*\* This certificate of Analysis has been produced electronically and is valid without signature \*\*

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Berangan, 43700 Berangan, Selangor Darul Ehsan, Malaysia.  
Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)  
Enquiry@lbalum.com.my www.lbalum.com

CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-273678-1		CUSTOMER PART NUMBER: 503/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.000+/- .004	
SHIP DATE: 03/01/2016		KAISER LOT NUMBER: 6061		ALLOY: 6061	
QUANTITY: 138,000 PCS		BL NUMBER: 614930		DIA/DIA/THICKNESS: 1.000	
WEIGHT SHIPPED: 1530.000 LB		SHIP TO: 2821 LANGSTAFF ROAD THYSSENKRUPP CANADA CONCORD, ON L4K 5C6 CANADA		SOLD TO: 2821 LANGSTAFF ROAD THYSSENKRUPP CANADA CONCORD, ON L4K 5C6 CANADA	
SHIP TO: 2821 LANGSTAFF ROAD THYSSENKRUPP CANADA CONCORD, ON L4K 5C6 CANADA		SHIP TO: 2821 LANGSTAFF ROAD THYSSENKRUPP CANADA CONCORD, ON L4K 5C6 CANADA		SHIP TO: 2821 LANGSTAFF ROAD THYSSENKRUPP CANADA CONCORD, ON L4K 5C6 CANADA	

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
200216231	0001	50.4	47.9	15.3	RE	96	N/A	N/A
200216231	0001	50.8	48.2	16.3	RE	92	N/A	N/A
200216231	0001	50.3	47.8	16.2	RE	93	N/A	N/A
200216231	0001	50.2	47.8	14.8	RE	94	N/A	N/A
200216231	0001	50.5	47.9	15.3	RE	94	N/A	N/A
200216231	0001	50.9	48.3	15.7	RE	93	N/A	N/A
200216231	0001	50.6	46.6	13.8	RE	92	N/A	N/A
200216231	0001	49.4	45.7	14.8	RE	93	N/A	N/A
200216231	0001	48.4	45.7	15.5	RE	93	N/A	N/A
200216231	0001	50.7	48.2	15.5	RE	93	N/A	N/A
200216231	0001	49.8	47.2	16.6	RE	92	N/A	N/A

LIMITS	SI	FE	CU	MN	MG	CR	ZN	TI	PB	BI	ZR	RE	Tot
Maximum	0.80	0.70	0.40	0.15	0.20	0.35	0.05	0.15	0.05	0.00	0.00	0.00	0.15
Minimum	0.40	0.30	0.15	0.00	0.80	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00
105937	.75	.28	.10	.94	.09	.04	.02	.00	.00	.00	.00	.01	.04

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	SI	FE	CU	MN	MG	CR	ZN	TI	PB	BI	ZR	RE	Tot
Maximum	0.80	0.70	0.40	0.15	0.20	0.35	0.05	0.15	0.05	0.00	0.00	0.00	0.15
Minimum	0.40	0.30	0.15	0.00	0.80	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00
105937	.75	.28	.10	.94	.09	.04	.02	.00	.00	.00	.00	.01	.04

### Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-2C0/8A UNS# A96061  
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL  
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

PO/Rel 32341  
 We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 5205 KAISER DRIVE  
 KALAMAZOO, MI 49048

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

*Almee L. Macnowski*  
 Almee L. Macnowski, Quality & Technology Manager

*Best in Class*

CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

# THYSSENKRUPP MATERIALS NA DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS  
3.75" DIA X 144.000"

PART NO.

PO/REL 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-991029-002

Signed by:

13 May 16  
Pg 1/1



740 Imperial Road North

Certificate: 117435 8 Mail To:

Customer: 007206 001 THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Your Order: PEC270633

NAS Order: PN 0058864 02

## METALLURGICAL TEST REPORT

North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

Ship To:

THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Date: 11/24/2015 Page: 1

Steel: 303

Finish: CD

Corrosion:

### PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw  
ASTM A582/12 EN 10204 3.1, ASTM A484/11  
AMS 5640U TYPE 1, QQS-764B CONDITION A  
SOLUTION ANNEAL TEMP 1900F MIN

### REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE  
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

11/29/15  
DAS  
12  
00-0

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH6027 4		.3750		1.118	144.00	6	1	

### CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323  
Chemical Analysis per ASTM A751/08

CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
US	.0404	.2055	17.1105	.3800	1.7915	.3105	.0415	8.4105	.0310

S %	SI %
.3240	.4915

### MECHANICAL PROPERTIES

Product Id	1 d	o i	HB	.2YS	UTS	RA	Elong
BH6027 4	R L	226.0	94.68	110.32	39.06	30.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical  
Dept. Mgr.

ASBraw

# THYSSENKRUPP MATERIALS NA DART-AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511  
1.250" X 1.44.0000"  
PART NO.

PO/Rel 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

13May16  
BL PEC-991029-009  
Pg 1/1



**Service Center Metals**

5850 Quality Way  
Prince George, VA 23875

**Can Do.**

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO ThyssenKrupp Materials NA-Concord, ON SHIP TO ThyssenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 284313	DIE NUMBER MSQ1866	DATE OF SHIPMENT 2/5/2016	OUR ORDER NUMBER 254395	ITEM 2
CUSTOMER PO PEC-272884	ALLOY/TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	CERTIFICATION ASTM-B221-14 StencilCont		
CUSTOMER PART NUMBER MSQ1866	DESCRIPTION MSQ T-250 (+.012/-0.00)		SPECIFICATION AMS-QQA-200/8 - 1997		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
4	201601833	2/3/16	min 47.50 max 49.70	min 44.60 max 46.00	min 11.35 max 15.05

### Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
01281603	201601833	6061	0.71	0.35	0.30	0.10	0.92	0.08	0.10	0.02	97.42	0.05	0.15		United States of America

SCM extrusions are manufactured in the USA.

*John J. Wiggins*  
John J. Wiggins, Director of Quality & Technical Services

Print Date: 2/5/2016



CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

*Best in Class*

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

BL PEC-991029-014

THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM ROUND BAR 6061-T6511  
PART NO. "50" DIA X 144.0000"

CUSTOMER PO NUMBER: PEC-271927-7		SHIP DATE: 01/05/2016		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
CUSTOMER PART NUMBER: R86/STK		SHIP ORDER NUMBER: 007		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
PRODUCT DESCRIPTION: 0.500 +/- .004 ROD		KAISER LOT NUMBER: 64732-109		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
ALLOY: 6061		QUANTITY: 352.000 PCS		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
TEMPER: T6511		B/L NUMBER: 614362		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
LENGTH: 12.000 FT		DIMENSIONS: 614362		SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
64732-109	0001	45.5	41.4	20.6	RE	95	N/A	N/A
64732-109	0002	45.3	41.3	21.7	RE	95	N/A	N/A
64732-109	0003	45.2	41.3	19.0	RE	94	N/A	N/A
64732-109	0004	45.6	41.7	17.2	RE	94	N/A	N/A
64732-109	0005	45.0	41.0	17.5	RE	93	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	SI	FE	CU	MN	MG	CR	ZN	PB	BI	ZR	EA	TOT
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	0.00	0.00
A35550	.76	.32	.28	.09	.92	.10	.04	.02	.00	.00	.01	.03

### Applicable Requirements:

ASCM-B221-14 NON-STENCILED ASME-SB221 1998 SECT II, AMS-QQ-A-200/82 (UNS#A96061 (T6511) also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macowski, Quality & Technology Manager

*Aimee L. Macowski*

Plant Serial: 00209974  
Kaiser Order Number: 699732  
Line Item: 007





**THYSSENKRUPP MATERIALS NA**

DART AEROSPACE  
 ALUMINUM ROUND BAR 6061-T6511  
 1.50" DIA X 144.0000"  
 PART NO.

PO/REL 32341  
 We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

Signed by:

BL PEC-991029-017

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 5205 KAISER DRIVE  
 KALAMAZOO, MI 49048

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

*Almee L. Macnowski*

Almee L. Macnowski, Quality & Technology Manager

# THYSSENKRUPP MATERIALS NA

## DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
1.50" x 2.50" X 144.0000"  
PART NO.

PO/R# 32341

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

# Certificate of Mill Test Results

13 May 16  
Pg 1/1

Signed by:

BL PEC-991029-011



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210  
4111 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

## MILL TEST

BILL TO THYSSENKRUPP MATERIALS NA	CERT CODE: 9	DIE NUMBER S 4660	DATE OF SHIPMENT Apr/07/2016	EXTRUDEX ORDER NO. 191718 - 2	MANIFEST NO. 346715
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-274011	ALLOY 6061	SALESMAN FORBES DODWELL	MADE IN CANADA	
SO DESCRIPTION 1.5"x2.5" FB	CUSTOMER PART NUMBER 4660-S	TEMPER T6511	PART DESCRIPTION 1.5"x2.5" FB	CERTIFICATION ASTM B221-14 - AMS QQA 200/8	

## Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Apr/06/2016	45.60	42.40	13.70	87.0, 87.1, 87.1	

## Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Other
382167	A.11	6061	0.58	0.16	0.21	0.02	0.86	0.08	0	0.01	0.01	0
												0

DAS  
1-16/05/17  
9-09

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

*David Natale*

David Natale  
Quality Control Manager

1 - CUSTOMER COPY

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL M42172B2.00X8.00 DATE 16/05/17  
 MATERIAL CERT REC'D yes  
 QUANTITY RECEIVED 81  
 QUANTITY INSPECTED 81  
 QUANTITY REJECTED \_\_\_\_\_  
 THICKNESS ORDERED 2.00X8.00  
 THICKNESS RECEIVED 2.00X8.00  
 SHEET SIZE ORDERED \_\_\_\_\_  
 SHEET SIZE RECEIVED \_\_\_\_\_  
 PO / BATCH NO 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
RECORD RESULTS BELOW			
HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL			
SIZE OF TEST SAMPLE			
HARDNESS / DUROMETER READING			

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY DAS  
 SIGNED OFF BY \_\_\_\_\_  
 DATE 16/05/17  
 ENGINEERING SIGNOFF (if required) \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL 440111341776  
 DATE 12/15/17  
 MATERIAL CERT REC'D 12'  
 QUANTITY RECEIVED 12'  
 QUANTITY INSPECTED 12'  
 QUANTITY REJECTED  
 THICKNESS ORDERED 1.25X4.50  
 THICKNESS RECEIVED 1.25X4.50  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 PO / BATCH NO 323411341776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK

RECORD RESULTS BELOW

HRC	HRB	DUR A	DUR B

TYPE OF MATERIAL

SIZE OF TEST SAMPLE

HARDNESS / DUROMETER READING

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY 11 12/15/17

DATE 12/15/17

SIGNED OFF BY

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 32341/134776  
 THICKNESS ORDERED 1.500X2.500  
 THICKNESS RECEIVED 1.500X2.500  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

MATERIAL M601763-200X2.500  
 DATE 16/05/17  
 MATERIAL CERT RECD 42.1  
 QUANTITY RECEIVED 12.1  
 QUANTITY INSPECTED 12.1  
 QUANTITY REJECTED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
RECORD RESULTS BELOW	HRC	HRB	DUR A
			DUR B
TYPE OF MATERIAL			
SIZE OF TEST SAMPLE			
HARDNESS / DUROMETER READING			

Testers located in the Quality Office

**QC 18 INSPECTION**  
 ENGINEERING SIGNOFF (if required)  
 INSPECTED BY DAS 14 15-03  
 DATE 16/05/17  
 SIGNED OFF BY  
 DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL M601762.50X3.50 DATE 16/05/17

MATERIAL CERT RECD  
QUANTITY RECEIVED  
QUANTITY INSPECTED  
QUANTITY REJECTED

THICKNESS ORDERED 2.50X3.50  
THICKNESS RECEIVED 2.50X3.50  
SHEET SIZE ORDERED  
SHEET SIZE RECEIVED

PO / BATCH NO 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR B
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY DAS SIGNED OFF BY 14 DATE 16/05/17

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

HYFORMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form revB



# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 32341/134776

MATERIAL Aluminum 505 DATE 10/05/17  
 MATERIAL CERT RECD 400  
 QUANTITY RECEIVED 24  
 QUANTITY INSPECTED 24  
 QUANTITY REJECTED

THICKNESS ORDERED R.500  
 THICKNESS RECEIVED R.500  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY DAS 11 9-29  
 DATE 10/05/17  
 SIGNED OFF BY \_\_\_\_\_  
 DATE \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

H FORM S\Quality Assurance\approved OAWRIF Material Receipt Inspection Form rev B

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 3234/134776

THICKNESS ORDERED R.625  
THICKNESS RECEIVED R.625  
SHEET SIZE ORDERED  
SHEET SIZE RECEIVED

MATERIAL M60611T6 R.625  
DATE 16/05/17  
MATERIAL CERT RECD yea  
QUANTITY RECEIVED 12'  
QUANTITY INSPECTED 12'  
QUANTITY REQUESTED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUREMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY DAS 14 16/05/17

SIGNED OFF BY

DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL MILITARY R.00 DATE 10/05/17  
 MATERIAL CERT REC'D 401  
 QUANTITY RECEIVED 12  
 QUANTITY INSPECTED 12  
 QUANTITY REJECTED \_\_\_\_\_

THICKNESS ORDERED R.00  
 THICKNESS RECEIVED R.005  
 SHEET SIZE ORDERED \_\_\_\_\_  
 SHEET SIZE RECEIVED \_\_\_\_\_

PO / BATCH NO 3234/134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
TYPE OF MATERIAL	HRC	HRB	DUR A
SIZE OF TEST SAMPLE			DUR B
HARDNESS / DUROMETER READING			

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY 16/05/17 DATE \_\_\_\_\_  
 SIGNED OFF BY \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60116 R1.500 DATE: 16/05/17  
 MATERIAL CERT RECD: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: \_\_\_\_\_

THICKNESS ORDERED: R1.500  
 THICKNESS RECEIVED: R1.500  
 SHEET SIZE ORDERED: \_\_\_\_\_  
 SHEET SIZE RECEIVED: \_\_\_\_\_

PO / BATCH NO: 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUREMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY: DAS 14

DATE: 16/05/17

SIGNED OFF BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

FORMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form rev B

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL M174R.30 DATE 16/05/17  
 MATERIAL CERT REC'D 400  
 QUANTITY RECEIVED 24  
 QUANTITY INSPECTED 24  
 QUANTITY REJECTED \_\_\_\_\_  
 THICKNESS ORDERED R.750  
 THICKNESS RECEIVED R.750  
 SHEET SIZE ORDERED \_\_\_\_\_  
 SHEET SIZE RECEIVED \_\_\_\_\_  
 PO / BATCH NO 3234/134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
RECORD RESULTS BELOW			
HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL			
SIZE OF TEST SAMPLE			
HARDNESS / DUROMETER READING			

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY DAS 14 089  
 DATE 16/05/17  
 SIGNED OFF BY \_\_\_\_\_ DATE \_\_\_\_\_  
**ENGINEERING SIGNOFF (if required)**

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303R.375  
 DATE 16/05/17  
 MATERIAL CERT REC'D YES  
 QUANTITY RECEIVED 24  
 QUANTITY INSPECTED 24  
 QUANTITY REJECTED

THICKNESS ORDERED R.375  
 THICKNESS RECEIVED R.372  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

PO / BATCH NO 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
 RECORD RESULTS BELOW

HRC	HRB	DUR A	DUR D

TYPE OF MATERIAL  
 SIZE OF TEST SAMPLE  
 HARDNESS / DUROMETER READING

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY DAS 14  
 DATE 16/05/17

SIGNED OFF BY  
 DATE

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 32341134776

MATERIAL H303 R2.00  
 DATE 16/05/17  
 MATERIAL CERT RECD 13.200  
 QUANTITY RECEIVED 13.200  
 QUANTITY INSPECTED 13.200  
 QUANTITY REJECTED

THICKNESS ORDERED R2.00  
 THICKNESS RECEIVED R2.00  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

DESCRIPTION	NCB (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR B	

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY **DAS** 14 16/05/17  
 DATE 16/05/17  
 SIGNED OFF BY  
 DATE

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO

32341/134776

THICKNESS ORDERED

R.750

THICKNESS RECEIVED

R.746

SHEET SIZE ORDERED

SHEET SIZE RECEIVED

MATERIAL

M303 R.750

DATE

16/05/17

MATERIAL CERT RECD

480

QUANTITY RECEIVED

481

QUANTITY INSPECTED

481

QUANTITY REJECTED

# MATERIAL RECEIPT INSPECTION FORM

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
RECORD RESULTS BELOW

TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUREMETER READING
HRC	HRB	DUR A
		DUR D

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY: DAS 14 09

DATE: 16/05/17

SIGNED OFF BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**ENGINEERING SIGNOFF (if required)**

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

H FORMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form revB

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL MILITARY B. 250X3.00 DATE 16/05/17  
 QUANTITY RECEIVED 12'  
 QUANTITY INSPECTED 12'  
 QUANTITY REJECTED \_\_\_\_\_  
 MATERIAL CERT RECD \_\_\_\_\_  
 THICKNESS ORDERED 750X3.00 THICKNESS RECEIVED 750X3.00  
 SHEET SIZE ORDERED \_\_\_\_\_ SHEET SIZE RECEIVED \_\_\_\_\_  
 PO / BATCH NO 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY DAS 14 0:30  
 DATE 16/05/17  
 SIGNED OFF BY \_\_\_\_\_  
 DATE \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL6X176B, T50X.125 DATE: 11/16/17  
 QUANTITY RECEIVED: 400  
 QUANTITY INSPECTED: 400  
 QUANTITY REJECTED: 0  
 PO / BATCH NO: 3234/134776  
 THICKNESS ORDERED: 750X.125  
 THICKNESS RECEIVED: 746X.125  
 SHEET SIZE ORDERED: \_\_\_\_\_  
 SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY: DAS  
 DATE: 11/16/17  
 SIGNED OFF BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL 160517  
 DATE 12/12/17  
 MATERIAL CERT RECD 12/12/17  
 QUANTITY RECEIVED 12  
 QUANTITY INSPECTED 12  
 QUANTITY REJECTED  
 THICKNESS ORDERED 1.00 X 4.00  
 THICKNESS RECEIVED 1.00 X 4.00  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 PO / BATCH NO 3234/134771

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY DAS  
 DATE 12/12/17  
 SIGNED OFF BY  
 DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL H6061T8.250X1.25 DATE 1/10/17  
 QUANTITY RECEIVED 12'  
 QUANTITY INSPECTED 12'  
 QUANTITY REJECTED  
 MATERIAL CERT RECD  
 THICKNESS ORDERED 1.25X1.25  
 THICKNESS RECEIVED 1.25X1.25  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 PO / BATCH NO 3.234/134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUREMETER READING	Testers located in the Quality Office	
HRC				
HRB				
DUR A				
DUR D				

**QC 18 INSPECTION**  
 INSPECTED BY 1/10/17  
 SIGNED OFF BY  
 DATE

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL 7304B, 250X4.00 DATE 10/05/17  
 MATERIAL CERT RECD 409 QUANTITY RECEIVED 12' QUANTITY INSPECTED 12' QUANTITY REJECTED  
 THICKNESS ORDERED 250X4.00 THICKNESS RECEIVED 250X4.00 SHEET SIZE ORDERED SHEET SIZE RECEIVED  
 PO / BATCH NO 32341134776

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

**QC 18 INSPECTION**  
 INSPECTED BY 14 DATE 10/05/17  
 SIGNED OFF BY  
 DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 1 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CANADA

E-MAILED

MAY 11 2016

Contact Name  
Vendor Phone

905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

FCA - (Free Carrier)

FOB

Currency

CAD

Terms

Net 30

Customer Tax #

10127-2607

Customer POID

Chantal Lavoie

Buyer

Line Reference  
Vendor Part Number

Line Comments  
Delivery Comments

M174R0.750

Description/  
Mfg ID

17-4 round bar .750

Reg Date/  
Taxable

5/18/2016

Yes

5/18/2016

Reg Qty/  
Unit of  
Measure

24.00

f

2x

MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI

GRAIN MUST BE ALONG LENGTH OF BAR. MINIMUM YIELD TENSILE STRENGTH = 100KSI

17-4PH/S17400/TYPE 630 SS ROUND BAR PER AMS 5643/ASTM A564

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

M303R0.375

303 Round Bar 0.375"

5/18/2016

Yes

5/18/2016

24.00

f

2x

MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI

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5/18/2016

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5/18/2016

24.00

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5/18/2016

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5/18/2016

24.00

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5/18/2016

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5/18/2016

24.00

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5/18/2016

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5/18/2016

24.00

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5/18/2016

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5/18/2016

24.00

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5/18/2016

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5/18/2016

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5/18/2016

24.00

f

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MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

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M303R0.375

303 Round Bar 0.375"

5/18/2016

Yes

5/18/2016

24.00

f

2x

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5/18/2016

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5/18/2016

24.00

f

2x

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303 Round Bar 0.375"

5/18/2016

Yes

5/18/2016

24.00

f

2x

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NOTE: AISI 304/316 NOT ACCEPTABLE

M303R0.375

303 Round Bar 0.375"

5/18/2016

Yes

5/18/2016

24.00

f

2x

MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI

GRAIN MUST BE ALONG LENGTH OF BAR. MINIMUM YIELD TENSILE STRENGTH = 100KSI

17-4PH/S17400/TYPE 630 SS ROUND BAR PER AMS 5643/ASTM A564

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

M303R0.375

303 Round Bar 0.375"

5/18/2016

Yes

5/18/2016

24.00

f

2x

MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI

GRAIN MUST BE ALONG LENGTH OF BAR. MINIMUM YIELD TENSILE STRENGTH = 100KSI



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016  
Page Number 2 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL-C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CANADA

Contact Name  
Vendor Phone

905 669 9444

Ship To Contact  
Ship To Phone  
Ship Via:

VENDOR'S TRUCK

Ship Acc:

M303R0.750

303 Round Bar 0.750

5/18/2016  
Yes

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

M303R2.000

303 ROUND BAR 2"

5/18/2016  
Yes

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

M304B0.250X4.000

304 BAR .250 x 4.00

5/18/2016  
Yes

MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS

AS PER ASTM A276 OR ASTM A240

NOTE: AISI 303 NOT ACCEPTABLE

Note:

PO Instructions: NO PEC ST-925618

5/11/2016

Buyer Chantal Lavoie  
Customer POID 10127-2607  
Customer Tax # Net 30  
Terms CAD  
Currency FCA - (Free Carrier)  
FOB 48.00 f  
\$3.98  
\$191.04

Line Total: \$191.04

13.20 f  
\$19.22  
\$253.70

Line Total:

12.00 f  
\$9.26  
\$253.70  
\$111.16

89165546





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32341

Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 3 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL-C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CANADA

Contact Name  
Vendor Phone  
Ship To Contact  
Ship To Phone  
Ship Via:  
Ship Acct:

905 669 9444

VENDOR'S TRUCK

Buyer  
Customer POID  
Customer Tax #  
Terms  
Currency  
FOB  
Chantal Lavoie  
10127-2607  
Net 30  
CAD  
FCA - (Free Carrier)

Line Total: \$111.16

\$73.60

Line Total: \$73.60

\$57.00

Line Total: \$57.00

M6061T6B0.750X03.000

6061-T6 Bar .750 x 3.00

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

M6061T6B00750X00.125

6061-T6 Bar .750 x .125

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

PO Instructions: NO PEC ST-925618

Note:

5/11/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32341

Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 4 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone

905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

VENDOR'S TRUCK

FOB

Currency

Terms

Customer Tax #

Customer POID

Buyer

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

8 M6061T6B1.000X04.000

6061-T6 Bar 1.00 x 4.00

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

9 M6061T6B1.250X01.250

6061-T6 Bar 1.25 x 1.25

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

10 M6061T6B1.250X04.500

6061-T6 Bar 1.25 X 4.50

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

PO Instructions: NO PEC ST-925618  
Note:

5/11/2016

12.00 f

Line Total:

\$14.81 \$177.75

\$52.20

12.00 f

Line Total:

\$4.35 \$52.20

\$140.04

12.00 f

Line Total:

\$11.67 \$140.04

9/16-05-16



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 5 of 8

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name	Vendor Phone	905 669 9444
Ship To Contact	Ship To Phone	
Ship Via:		VENDOR'S TRUCK
Ship Acct:		
Buyer	Customer POID	10127-2607
Customer Tax #	Terms	Net 30
Currency	FOB	CAD
		FCA - (Free Carrier)

Chantal Lavoie

11 M6061T6B1.500X02.500  
6061-T6 Bar 1.50 x 2.50  
5/18/2016 Yes  
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

12 M6061T6B2.000X08.000  
6061-T6 BAR 2.00" X  
8.00" (CUT IN 4FT  
SECTION)  
5/18/2016 Yes  
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

NOTE: CUT IN HALF

Line Total:

\$177.75  
\$11.25  
\$135.00

Line Total:

\$135.00  
\$48.09  
\$384.72

Line Total:

\$384.72

PO Instructions: NO PEC ST-925618  
Note:

5/11/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 6 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

Ship Acc:

VENDOR'S TRUCK

FOB

Currency

Terms

Customer Tax #

Customer POID

Buyer

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

13 M6061T6B2.500X03.500

6061-T6 Bar 2.50 x 3.50

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR ASTM B211 OR  
ASTM B221

6061-T6 Round Bar .500"

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR ASTM B211 OR  
ASTM B221

14 M6061T6R0.500

6061-T6 Round Bar .500"

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR ASTM B211 OR  
ASTM B221

15 M6061T6R0.625

6061-T6 Round Bar .625"

5/18/2016  
Yes

MATERIAL: 6061-T6/T6510/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR ASTM B211 OR  
ASTM B221

PO Instructions: NO PEC ST-925618

Note:

5/11/2016

8016-0516

12.00

\$3.75

\$45.00

Line Total:

\$45.60

24.00

\$1.90

\$45.60

Line Total:

\$276.75

12.00

\$23.06

\$276.75



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 7 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Ship To Contact  
Ship To Phone  
Ship Via:  
Ship Acct:

VENDOR'S TRUCK

Buyer Chantal Lavoie  
Customer POID 10127-2607  
Customer Tax #  
Terms Net 30  
Currency CAD  
FOB FCA - (Free Carrier)

16 M6061T6R1.000"  
ROUND BAR 1.00"  
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

17 M6061T6R1.500  
6061-T6 Round Bar 1.50  
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$45.00

\$45.00 \$3.75

Line Total: \$45.00

\$58.50 \$4.88

Line Total: \$58.50

PO Instructions: NO PEC ST-925618  
Note:

5/11/2016





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO32341  
Purchase Order Date 5/11/2016  
PO Print Date 5/11/2016

Page Number 8 of 8

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name	Vendor Phone	905 669 9444
Ship To Contact	Ship To Phone	
Ship Via:		
Ship Acct:		
	VENDOR'S TRUCK	
Buyer	Customer POID	Customer Tax #
Chantal Lavoie		10127-2607
	Terms	Net 30
	Currency	CAD
FOB		FCA - (Free Carrier)

18	M7075T6B5.000X0.375	7075-T6 BAR 5.000" X 0.375"	5/25/2016	Yes	12.00	\$25.42	\$305.00
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MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR  
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE  
NOTE: ACCEPTABLE FOR APICAL CABLE CUTTER PARTS

19	71401-45	PROCUREMENT QUALITY CLAUSES	5/18/2016	No	1.00	\$0.00	\$0.00
Line Total: \$305.00							

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material performance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

Line Total:	\$0.00
PO Total:	\$2,558.17

Handwritten signature/initials

PO Instructions: NO PEC ST-925618

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 2 Change Date: 5/11/2016